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ANODE GRINDING AND OTHER
 INNOVATIONS SPEED PRODUCTION

INTRODUCE ANODE GRINDING AT PLANT A-52 -- Trybuna Ludu, No 90, 31 Mar 50.

The anode grinding method has been introduced at the Lighting Equipment Manufacturing Plant A-52, formerly called "Borkowsky." The anode method not only grinds the hardest vidia tools but also cuts and shapes them.

A similar method has been installed recently at the Swierczewski Plant.

High speed cutting is also being used at A-52. Pindras and Hildebrandt worked out the cutting angles and designed tools which attain a speed of 2,800 revolutions per minute with a work piece 220 millimeters in diameter. Workers were afraid to run the machines at that speed until Pindras himself demonstrated that it was possible and safe.

At a mass meeting held 30 March at Plant A-52, workers in all divisions made May Day pledges.

The conveyor department promised to hasten the installation of the nickel-plating bath by 1 May instead of 30 May as planned. This bath, which was built from scrap iron, has a special conveyor which immerses and ejects the pieces being plated, reducing the plating time by 75 percent.

Many workers pledged increased production with the adoption of high speed cutting methods.

Plant A-52 innovators Hildebrandt, Bogdan Sobolewski, and Pindras worked out special heads for milling machines based on Soviet models; they cut working time in half and give a smooth finish.

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MAY DAY PLEDGES POUR IN -- Trybuna Ludu, No 92, 2 Apr 50

As a May Day pledge the Ursus workers promised to produce 33 tractors over the April plan.

The Jozef Stalin Metal-Processing Plant in Poznan pledged one locomotive, one passenger car, 30 tons of castings, 2 freight cars, 40 pulley grease boxes, and 20 circular or disc saws over the plan by 1 May.

The Poznan Machine Shops, in addition to the plan, will produce 5 tons of iron castings, and repair 2 machine tools, one overhead crane for the foundry, 10 steel safes, and other smaller items.

The crew of Energobudowa pledged to complete installation of Boiler No 1 for the Nowa Electrical Power Plant by 1 May.

PLEDGE INCREASES -- Dziennik Zachodni, No 88, 29 Mar 50

The J. Stalin Metallurgical Plant in Gliwice, one of the largest in Poland, made the following May Day pledges for April production:

The steel mill will produce 200 tons above the plan. The foundry will increase its production by 10 percent. The Robertson rolling mill will produce 5 tons of sheet metal over the plan. The annealing plant pledged that it would produce 50 tons of iron bands above the plan. The general-purpose rolling mill will increase its planned production by 50 tons.

The workshop pledged 50 tons of structural steel over the plan, and promised to build a traveling crane 3 weeks ahead of schedule, a vehicular bridge 10 days ahead of schedule, and structural shapes 15 days ahead of schedule. The assembly division pledged to shorten the production time on electric heating elements by 10 days. The machine shop will complete a 10-ton scale for the steel foundry and deliver machine parts for other divisions 10 days ahead of schedule.

The heat-treatment division will complete by 25 April, steam, water, and acid installations, repair compressors and vertical pumps, install hydrometers, and assemble heater elements for electrical heat treatment equipment. The electrical workshop will make compressor parts and repair transformers and motors for the steel mill by 25 April. The construction division will accelerate the masonry work on Children's Home and repair 300 linear meters of railroad tracks.

CASTING WILL REPLACE MACHINING -- Zycie Warszawy, No 104, 16 Apr 50

Machine parts can be easily produced from the hardest metals by the newly developed method of casting. Such parts formerly had to be shaped either by extrusion or costly machining.

A master pattern of steel or brass is used to make a precision mold of easily fusible metal. The mold is then filled by injecting a substance composed mostly of beeswax by means of compressed air. The wax pattern is covered with fireproof ceramic paste, then surrounded with the molding material and dried at very high temperatures. During the drying process the wax melts and drains out. The final product is cast by filling the ceramic mold with metal melted in an electric furnace.

At most, there is a variation of a few hundredths of a millimeter between the finished product and the master pattern which, in many cases, is an improvement over machining and reduces metal waste.

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For instance, a milling machine which requires 2.4 kilograms of metal by the machining process requires only 800 grams by the casting process. A greater saving will be made in casting very small parts, for instance small gears, which require 175 grams of metal with machining and only 40 grams with casting.

NEW RECORD IN CUTTING STEEL -- Rzeczpospolita, No 97, 7 Apr 50

Operating a Czech-made Kovo lathe, a shock worker of the regional workshops of the Technical Farm Services in Koszalin set a new record in Poland by cutting 1,120 meters of steel per minute.

NEW DEVICE FOR GRINDING SLIDE VALVES -- Trybuna Ludu, No 85, 26 Mar 50

Ludwik Masiak presented to the Technical Efficiency Commission of the Warsaw Gasworks an idea for using domestic raw materials to make grinding wheels used in polishing slide valves for gas meters.

Tests indicated that the new grinding wheels are superior to those imported from abroad.

CUTOFF SWITCHES FROM SCRAP -- Dziennik Lodzki, No 95, 5 Apr 50

In expanding the network of the Lodz Electric Power Plant, the Ruda Pabianicka substation, which serves the southern industrial area, had to be rebuilt and modernized. It was necessary to replace defective rotary cut-off switches imported from Switzerland. Zygmunt Mendasik, an innovator at the plant, designed and made the switches from scrap material.

They were installed and are giving much better service than the costly foreign-made switches and will, no doubt, be adopted by the entire power industry in Poland. Previously, Poland had not manufactured these switches.

WORK COOPERATIVE IN LODZ -- Dziennik Lodzki, No 87, 28 Mar 50

Metalowiec, a metal worker's cooperative located at 8 Jakuba Street in Lodz, now manufactures machine parts for textile machinery which were previously imported. Aside from the normal production from regularly supplied raw materials, the cooperative uses scrap metal to make sheaths for electrical cables or Holt guides for thread.

Household utensils such as wash tubs, bath tubs, wash basins, etc. are also manufactured by this cooperative. Approximately 1,000 household articles of various kinds are produced daily. All workers at the cooperative participate in work competition.

BUYS MODERN FIREFIGHTING EQUIPMENT -- Trybuna Ludu, No 98, 8, 9, and 10 Apr 50

The General Mutual Insurance Institute recently purchased eight Bedford chassis which are to be furnished with the necessary appurtenances and equipment and assigned to the fire stations in the more heavily industrialized centers.

Under the long-term plan, regional fire departments will be equipped with modern equipment.

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